

# Flour Mixes and Dough Manufacturing From Purchased Flour: 2002

Issued December 2004

EC02-311-311822 (RV)

## 2002 Economic Census

*Manufacturing*

Industry Series



USCENSUSBUREAU

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



## CONTENTS

Introduction to the Economic Census .....	v
Manufacturing .....	ix

### Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002 .....	2
3. Detailed Statistics by Industry: 2002 .....	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002 .....	5
6a. Products Statistics: 2002 and 1997 .....	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	--
7. Materials Consumed by Kind: 2002 and 1997.....	8

### Appendixes

A. Explanation of Terms .....	A-1
B. NAICS Codes, Titles, and Descriptions .....	B-1
C. Methodology .....	C-1
D. Geographic Notes .....	--
E. Metropolitan and Micropolitan Statistical Areas .....	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997 .....	F-1

-- Not applicable for this report.

**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
311822, Flour mixes and dough manufacturing from purchased flour . . . . .	2002..	180	220	14 050	536 043	10 761	23 569	351 681	2 196 379	2 127 435	4 303 745	'129 398
	2001..	N	N	15 132	506 876	11 548	24 847	344 370	2 295 881	2 478 279	4 769 750	122 637
	2000..	N	N	17 874	528 380	14 010	26 949	360 354	2 112 942	2 527 541	4 639 140	189 089
	1999..	N	N	17 196	523 063	13 249	27 023	353 003	2 635 796	2 657 342	5 288 669	158 870
	1998..	N	N	15 232	485 517	11 843	24 919	327 480	2 401 144	2 626 006	5 028 916	176 877
	1997..	206	249	15 534	484 414	11 963	25 851	321 649	2 495 635	2 523 023	4 999 850	158 993

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
311822, Flour mixes and dough manufacturing from purchased flour												
United States .....	2	220	113	14 050	536 043	10 761	23 569	351 681	2 196 379	2 127 435	4 303 745	129 398
California .....	1	33	15	1 192	38 899	935	2 031	24 592	144 938	179 484	324 941	8 266
Illinois .....	—	20	13	2 764	96 238	2 116	4 680	71 008	337 899	375 295	707 632	9 088
New Jersey .....	8	9	6	505	27 119	342	783	13 048	87 911	84 830	172 959	3 555
New York .....	5	20	7	397	13 187	278	629	8 374	61 389	85 347	146 623	4 623
Ohio .....	1	9	6	514	19 008	410	843	14 283	71 984	161 661	230 617	31 584
Texas .....	1	18	9	1 256	51 194	940	2 190	33 262	381 550	169 488	548 940	14 962
Washington .....	1	8	7	608	19 930	424	837	12 526	111 934	135 206	249 826	3 152

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics by Industry: 2002**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>311822, Flour mixes and dough manufacturing from purchased flour</b>	
Companies <sup>1</sup> .....	number.. 180
All establishments <sup>2</sup> .....	number.. 220
Establishments with 1 to 19 employees .....	number.. 107
Establishments with 20 to 99 employees .....	number.. 75
Establishments with 100 employees or more .....	number.. 38
All employees <sup>3</sup> .....	number.. 14 050
Total compensation .....	\$1,000.. 693 532
Annual payroll .....	\$1,000.. 536 043
Total fringe benefits .....	\$1,000.. 157 489
Production workers, average for year .....	number.. 10 761
Production workers on March 12 .....	number.. 10 284
Production workers on May 12 .....	number.. 10 888
Production workers on August 12 .....	number.. 10 930
Production workers on November 12 .....	number.. 10 910
Production worker hours .....	1,000.. 23 569
Production worker wages .....	\$1,000.. 351 681
Total cost of materials .....	\$1,000.. 2 127 435
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 1 928 995
Resales .....	\$1,000.. 132 135
Purchased fuels .....	\$1,000.. 7 202
Purchased electricity .....	\$1,000.. 32 992
Contract work .....	\$1,000.. 26 111
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 556 438
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 8 215
Total value of shipments .....	\$1,000.. 4 303 745
Primary products value of shipments .....	\$1,000.. 3 472 633
Secondary products value of shipments .....	\$1,000.. 657 741
Total miscellaneous receipts .....	\$1,000.. 173 371
Value of resales .....	\$1,000.. 168 590
Contract receipts .....	\$1,000.. D
Other miscellaneous receipts .....	\$1,000.. D
Primary products specialization ratio .....	percent.. 84
Value of primary products shipments made in all industries .....	\$1,000.. 4 194 618
Value of primary products shipments made in this industry .....	\$1,000.. 3 472 633
Value of primary products shipments made in other industries .....	\$1,000.. 721 985
Coverage ratio .....	percent.. 83
Value added .....	\$1,000.. 2 196 379
Total inventories, beginning of year .....	\$1,000.. 218 040
Finished goods inventories .....	\$1,000.. 113 875
Work-in-process inventories .....	\$1,000.. 2 522
Materials and supplies inventories .....	\$1,000.. 101 643
Total inventories, end of year .....	\$1,000.. 242 662
Finished goods inventories .....	\$1,000.. 134 192
Work-in-process inventories .....	\$1,000.. 2 274
Materials and supplies inventories .....	\$1,000.. 106 196
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '1 538 415
Total capital expenditures (new and used) .....	\$1,000.. '129 398
Buildings and other structures (new and used) .....	\$1,000.. '24 189
Machinery and equipment (new and used) .....	\$1,000.. '105 209
Automobiles, trucks, etc., for highway use .....	\$1,000.. '2 977
Computers and peripheral data processing equipment .....	\$1,000.. '3 757
All other expenditures for machinery and equipment .....	\$1,000.. '98 475
Total retirements .....	\$1,000.. '50 073
Gross value of depreciable assets at end of year .....	\$1,000.. '1 617 740
Depreciation charges during year .....	\$1,000.. '142 039
Total rental payments .....	\$1,000.. 40 760
Buildings and other structures .....	\$1,000.. 23 827
Machinery and equipment .....	\$1,000.. 16 933
Total other expenses <sup>4</sup> .....	\$1,000.. 135 835
Response coverage ratio <sup>5</sup> .....	percent.. 84
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 26 152
Communications services <sup>4</sup> .....	\$1,000.. 2 535
Legal services <sup>4</sup> .....	\$1,000.. 961
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 945
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 2 717
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 779
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 2 384
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 4 451
Taxes and license fees <sup>4</sup> .....	\$1,000.. 4 868
All other expenses <sup>4</sup> .....	\$1,000.. 90 043

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on 2002 Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
311822, Flour mixes and dough manufacturing from purchased flour											
All establishments .....	2	220	14 050	536 043	10 761	23 569	351 681	2 196 379	2 127 435	4 303 745	'129 398
Establishments with—											
1 to 4 employees .....	9	59	116	3 976	95	186	2 863	15 394	15 577	30 799	'570
5 to 9 employees .....	7	26	186	7 071	155	338	5 267	24 273	36 662	61 018	'1 329
10 to 19 employees .....	4	22	307	11 511	235	512	7 984	54 725	49 784	105 171	'5 750
20 to 49 employees .....	4	48	1 538	55 196	1 164	2 467	35 781	234 379	242 309	470 205	'29 976
50 to 99 employees .....	2	27	1 926	57 791	1 370	2 834	35 819	194 799	302 176	497 023	'10 775
100 to 249 employees .....	1	28	4 760	182 987	3 633	8 025	121 296	937 280	807 382	1 746 200	'40 139
250 to 499 employees .....	—	8	h	D	D	D	D	D	D	D	D
500 to 999 employees .....	—	1	f	D	D	D	D	D	D	D	D
1,000 to 2,499 employees .....	9	1	g	D	D	D	D	D	D	D	D
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	78	304	11 538	257	549	8 732	40 666	47 648	88 314	'1 828

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
311822	Flour mixes and dough manufacturing from purchased flour .....	220	14 050	536 043	10 761	23 569	351 681	2 196 379	2 127 435	4 303 745	'129 398
3118220	Prepared flour mixes (including refrigerated and frozen doughs and batters), made from purchased flour .....	220	14 050	536 043	10 761	23 569	351 681	2 196 379	2 127 435	4 303 745	'129 398

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6a. Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
311822	Flour mixes and dough manufacturing from purchased flour .....	2002.. N 1997.. N	X X	X X	4 194 618 5 018 526
3118220	Prepared flour mixes (including refrigerated and frozen doughs and batters), made from purchased flour .....	2002.. N 1997.. N	X X	X X	4 194 618 5 018 526
31182201	Cake mixes, including gingerbread, made from purchased flour .....	2002.. N 1997.. N	X X	X X	577 299 808 694
3118220121	Cake mixes, including gingerbread, made from purchased flour <sup>1</sup> .....	2002.. 16 1997.. 26	X X	S 7 316.3	577 299 808 694
31182202	Flour mixes (including refrigerated and frozen doughs and batters), except cake mixes, made from purchased flour .....	2002.. N 1997.. N	X X	X X	2 929 441 4 049 072
3118220211	Pancake and waffle mixes, made from purchased flour <sup>2</sup> .....	2002.. 11 1997.. 19	X X	S S	223 813 162 024
3118220231	Biscuit mixes, made from purchased flour <sup>3</sup> .....	2002.. 13 1997.. 14	X X	S S	40 134 72 019
3118220241	Other prepared flour mixes (including cookie, piecrust, doughnut, and other sweet yeast goods mixes), made from purchased flour <sup>4</sup> .....	2002.. 24 1997.. 43	X X	S S	556 589 833 994
3118220251	Bread and bread-type roll mixes, made from purchased flour <sup>5</sup> .....	2002.. 16 1997.. 22	X X	S S	67 258 262 730
3118220261	Refrigerated doughs and batters (cookie, biscuit, bread and bread-type roll, pasta, pizza, coffeecake, pancake, etc.), made from purchased flour <sup>6</sup> .....	2002.. 18 1997.. 25	X X	P817.6 P1 350.8	1 193 923 996 826
3118220271	Frozen doughs and batters (cookie, biscuit, bread and bread-type roll, pasta, pizza, coffeecake, pancake, etc.), made from purchased flour <sup>7</sup> .....	2002.. 58 1997.. 89	X X	91 482.1 P2 277.1	847 724 1 721 479
3118220Y	Prepared flour mixes (including refrigerated and frozen doughs and batters), made from purchased flour, nsk .....	2002.. N 1997.. N	X X	X X	687 878 160 760
3118220YWW	Prepared flour mixes (including refrigerated and frozen doughs and batters), made from purchased flour, nsk, for nonadministrative-record establishments .....	2002.. N 1997.. N	X X	X X	606 028 74 151
3118220YWY	Prepared flour mixes (including refrigerated and frozen doughs and batters), made from purchased flour, nsk, for administrative-record establishments .....	2002.. N 1997.. N	X X	X X	81 850 86 609

- <sup>1</sup>This product code is primary to more than one industry. See industry 311211, product code 311211A121.  
<sup>2</sup>This product code is primary to more than one industry. See industry 311211, product code 311211A111.  
<sup>3</sup>This product code is primary to more than one industry. See industry 311211, product code 311211A131.  
<sup>4</sup>This product code is primary to more than one industry. See industry 311211, product code 311211A151.  
<sup>5</sup>This product code is primary to more than one industry. See industry 311211, product code 311211A141.  
<sup>6</sup>This product code is primary to more than one industry. See industry 311211, product code 311211A161.  
<sup>7</sup>This product code is primary to more than one industry. See industry 311211, product code 311211A171.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.



Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
311822	Flour mixes and dough manufacturing from purchased flour		
00900001	Total materials .....2002..	X	1 928 995
	.....1997..	X	2 279 388
11114003	Wheat ..... mil bushels ..2002..	D	D
	.....1997..	S	37 667
11119913	Oats ..... mil bushels ..2002..	S	538
	.....1997..	S	57
11115003	Corn ..... mil bushels ..2002..	1.0	2 497
	.....1997..	D	D
11119911	Barley ..... mil bushels ..2002..	D	D
	.....1997..	D	D
11116000	Rice, rough ..... mil lb ..2002..	D	D
	.....1997..	D	D
11110003	Other grains (excluding wheat, oats, corn, barley, and rice (rough)) ..... mil bushels ..2002..	D	D
	.....1997..	D	D
31121119	Corn grits ..... 1,000 cwt ..2002..	D	D
	.....1997..	D	D
31121121	Corn meal and flakes ..... 1,000 cwt ..2002..	D	D
	.....1997..	S	10 149
31121111	Wheat flour, white bread-type (excluding prepared mixes) ..... mil lb ..2002..	P1 342.9	183 372
	.....1997..	N	N
31121109	Wheat flour, cake-type (excluding prepared mixes) ..... mil lb ..2002..	P622.8	72 661
	.....1997..	N	N
31121103	Wheat flour, cookie and cracker-type (excluding prepared mixes) ..... mil lb ..2002..	D	D
	.....1997..	N	N
31122121	Wheat gluten ..... mil lb ..2002..	58.8	28 614
	.....1997..	N	N
31121105	Wheat flour, other (including whole wheat, and clear flour), excluding prepared mixes ..... mil lb ..2002..	P257.9	32 833
	.....1997..	N	N
31100005	Prepared doughnut mixes, cake and yeast types ..... mil lb ..2002..	S	6 681
	.....1997..	N	N
31100007	Prepared bread mixes, including franchise mixes ..... mil lb ..2002..	D	D
	.....1997..	N	N
31100009	Prepared cake mixes ..... mil lb ..2002..	D	D
	.....1997..	N	N
31100011	Other prepared mixes, including sweetgoods ..... mil lb ..2002..	16.5	6 881
	.....1997..	N	N
31131001	Sugar, cane and beet (sugar solids) ..... 1,000 s tons ..2002..	P150.7	68 467
	.....1997..	N	N
31131005	Sugar, cane and beet (sugar solids), excluding brown ..... 1,000 s tons ..2002..	P237.7	122 761
	.....1997..	479.0	269 424
31131009	Brown sugar, cane and beet (sugar solids) ..... 1,000 s tons ..2002..	S	4 219
	.....1997..	S	3 537
31122111	Glucose syrup (corn syrup), conventional and regular (solids) ..... mil lb ..2002..	20.8	3 145
	.....1997..	N	N
31122103	High fructose corn syrup (HFCS) (solids) ..... mil lb ..2002..	41.1	4 927
	.....1997..	N	N
31100003	Other natural sweeteners (including dextrose, honey, molasses, and blends of corn sweeteners and sugar) (solids) ..... mil lb ..2002..	60.7	14 261
	.....1997..	N	N
32510057	Artificial sweeteners (solids) ..... mil lb ..2002..	1.1	954
	.....1997..	N	N
31120011	Shortening, vegetable (100 percent) ..... mil lb ..2002..	181.1	53 247
	.....1997..	N	N
31100023	Shortening, animal and blends of animal and vegetable ..... mil lb ..2002..	D	D
	.....1997..	N	N
31161115	Lard ..... mil lb ..2002..	D	D
	.....1997..	N	N
31100025	Fats and oils, other (cooking oils, butter, margarine, puff paste, etc.) ..... mil lb ..2002..	44.4	18 844
	.....1997..	N	N
31199903	Compressed yeast ..... mil lb ..2002..	16.1	3 893
	.....1997..	N	N
31199905	Active dry yeast ..... mil lb ..2002..	P6.2	6 349
	.....1997..	N	N
31141107	Frozen fruits ..... mil lb ..2002..	P6.0	5 563
	.....1997..	N	N
31142305	Fruits and nuts, dried (including raisins) ..... 1,000 cwt ..2002..	49.7	8 863
	.....1997..	N	N
31142307	Raisins ..... 1,000 cwt ..2002..	60.0	3 897
	.....1997..	S	3 519
31142313	Fruits, dried (excluding raisins) ..... 1,000 cwt ..2002..	25.7	5 162
	.....1997..	S	6 953
31191103	Nutmeats, dried and dehydrated ..... 1,000 cwt ..2002..	19.1	2 929
	.....1997..	S	5 799
11100031	Nuts and nutmeats, raw ..... 1,000 cwt ..2002..	S	6 859
	.....1997..	27.2	8 214
31134001	Glaze, candied and crystallized fruits, fruit peel, nuts, and other vegetable substances ..... mil lb ..2002..	1.3	770
	.....1997..	N	N
31142101	Jams, jellies and preserves, including fruit butter and maraschino cherries ..... mil lb ..2002..	S	2 108
	.....1997..	N	N
31199901	Eggs (liquid, dried, and frozen) (dry weight equivalent) ..... mil lb ..2002..	P48.3	49 413
	.....1997..	N	N
31151305	Processed cheese ..... mil lb ..2002..	P2.6	3 808
	.....1997..	N	N
31151405	Milk and milk replacers (dry milk, dry whey, blends, soy whey, etc.) ..... mil lb ..2002..	50.8	47 145
	.....1997..	N	N
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.) ..... mil lb ..2002..	51.9	55 519
	.....1997..	N	N
33299901	Aluminum foil packaging products, converted or rolls and sheets ..... 2002..	X	D
	.....1997..	X	N
001900A1	Packaging paper and plastics film, coated and laminated ..... 2002..	X	61 005
	.....1997..	X	101 625

See footnotes at end of table.

**Table 7. Materials Consumed by Kind: 2002 and 1997—Con.**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
311822	Flour mixes and dough manufacturing from purchased flour—Con.		
001900A3	Bags (plastics, foil, and coated paper) .....2002..	X	20 696
	.....1997..	X	19 504
32222401	Bags (uncoated paper and multiwall) .....2002..	X	11 934
	.....1997..	X	14 608
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	158 077
	.....1997..	X	224 944
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	345 033
	.....1997..	X	1 303 445
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	340 412
	.....1997..	X	266 160

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.